



September 30, 2026

Mr. Michael Smith
Land Quality Bureau
Iowa Department of Natural Resources
6200 Park Avenue, Suite 200
Des Moines, IA 50321

**RE: Metro Park West Sanitary Landfill
Permit No. 08-SDP-03-84P
August 2026 Verification Results and Monitoring Program Summary**

Dear Mr. Smith,

On behalf of Metro Waste Authority (MWA), HDR Engineering, Inc. (HDR) has prepared this letter to provide the Iowa Department of Natural Resources (IDNR) with laboratory analytical results for the August 10, 2026, Verification Monitoring Event at Monitoring Well MW-17, and a summary of the monitoring program for the next compliance monitoring event at the MWA Metro Park West (MPW) landfill (herein referred to as Site). The August 2026 Verification Monitoring Event field sampling form, laboratory analytical report, and statistical summary reports are attached.

Based on the results from the April 2026 Semiannual Compliance Monitoring Event, verification samples were proposed to be collected from monitoring well MW-17 for cobalt, nickel, and silver analysis. Monitoring well MW-17 is currently managed under the detection monitoring program. The cobalt, nickel, and silver concentrations measured in the April 2026 groundwater sample from MW-17 were detected above their respective interwell upper prediction limits (UPLs). A verification sample was collected to evaluate if the increase in cobalt, nickel, and silver concentrations were outliers or the result of sampler or laboratory error. The cobalt, nickel, and silver concentrations of the original and verification samples for MW-17 are summarized on **Table 1**, along with the interwell UPLs.

Table 1: Groundwater Analytical Concentrations

Sample Date	Cobalt (mg/L) [MW-17]	Nickel (mg/L) [MW-17]	Silver (mg/L) [MW-17]
Original Sample (April 2026)	<u>0.00403</u>	<u>0.0145</u>	<u>0.00158</u>
Verification Sample (August 2026)	<u>0.00145</u>	0.00423	<0.000115
Interwell UPL	0.00135	0.0121	0.0005

Notes:

mg/L = milligrams per liter

< = less than the laboratory's method detection limit (MDL)

Bold and Underlined – Denotes result is above the UPL

The August 2026 verification sample results for nickel and silver in MW-17 are lower than their corresponding UPL, with the silver concentration being below the laboratory's method detection limit. Therefore, nickel and silver in MW-17 are not verified as statistically significant increases (SSIs). For cobalt, both the April 2026 and August 2026 concentrations measured at monitoring well MW-17 are identified as SSIs when compared to the interwell UPL.



For further evaluation, an intrawell prediction limit test was performed for cobalt in MW-17. The background dataset for the intrawell analysis included samples collected during the period from October 2023 through November 2025 at monitoring well MW-17. The cobalt concentrations measured in the April 2026 and August 2026 samples from monitoring well MW-17 did not exceed the intrawell UPL of 0.01132 milligrams per liter (mg/L). This indicates that even though the recent two concentrations of cobalt are higher than the interwell UPL which is calculated from upgradient wells, they are lower than the highest historical cobalt concentrations measured at monitoring well MW-17.

Following Cell D construction completion in June 2023, MW-17 was installed in October 2023. By the time MW-17 was installed, Cell D was actively receiving waste. The earliest possible starting time for waste acceptance at Cell D was July 24, 2023, when IDNR approved the cell for fill. Therefore, historical analyses of groundwater samples collected from MW-17 were after the start of waste placement at Cell D.

However, due to Cell D being constructed with a compacted, low permeability soil liner and high-density polyethylene geomembrane liner and due to the distance between the edge of waste and monitoring well MW-17, a release from the landfill could not have impacted the monitoring well in the period of time since waste was accepted at Cell D. The shortest distance between the Cell D waste boundary and MW-17, which is parallel to groundwater flow, is approximately 35 feet. This is depicted on the attached **Figure 1**. According to the 2022 Hydrogeological Planning Study for the Phase II expansion at MPW, the average horizontal hydraulic conductivity of the glacial till sediments is approximately 5.96×10^{-5} centimeters per second (cm/sec), which is approximately 0.169 feet per day (ft/day). Average effective porosity of glacial till sediments is approximately 0.05. According to the April 2026 groundwater measurements at upgradient monitoring well MW-5AR and downgradient monitoring well MW-17, the hydraulic gradient was approximately 0.0239 feet per foot (ft/ft). Groundwater velocity was calculated via the following equation:

$$v = \frac{ki}{n}$$

Where:

- v = Groundwater Velocity in feet per day
- k = hydraulic conductivity in feet per day
- i = hydraulic gradient in feet per foot
- n = effective porosity

Based on the hydraulic gradient measured during the April 2026 sampling event and the site specific hydraulic conductivity and effective porosity values, groundwater velocity is approximately 0.0808 ft/day. If a release of leachate from Cell D were to occur at the waste boundary into the groundwater and groundwater velocity was consistent with the previously calculated value, it would take approximately 433 days for the impacted groundwater to flow and intersect with monitoring well MW-17. If the waste placement in Cell D commenced on July 24, 2023, and a leachate release immediately occurred, impacted groundwater would intersect with monitoring well MW-17 at approximately September 2024. This flow model is conservative in its approach since it doesn't take into account vertical flow of leachate through subsurface soils before reaching the water table. Estimated time would likely exceed the 433 day travel time if an actual release of leachate had occurred at the landfill.

Based on the conservative modeling discussed previously, a potential release of leachate should not have impacted groundwater quality at MW-17 until September 2024. Between the initiation of background groundwater sampling at MW-17 in October 2023 and September 2024, five (5) groundwater samples were



collected and analyzed for cobalt. The highest measured cobalt concentration was measured during the March 29, 2024, sampling event (0.00473 mg/L). The March 2024 concentration alone is higher than the cobalt concentrations measured in the April 2026 and August 2026 samples. Based on the available information, it does not appear that a potential release of leachate would have impacted the groundwater concentrations at MW-17. The recent cobalt concentrations at monitoring well MW-17 appear to be comparable to historical concentrations at the well and are likely the result of natural variability in groundwater quality.

Since the cobalt concentrations at MW-17 appear to be related to natural variability in groundwater quality, MW-17 will continue to be monitored under detection monitoring program in accordance with the requirements of Iowa Administrative Code (IAC) 567.113.10(5).

If there are any questions regarding this submittal, please do not hesitate to contact Richard Wilson at (402) 392-6714.

Sincerely,
HDR Engineering, Inc.

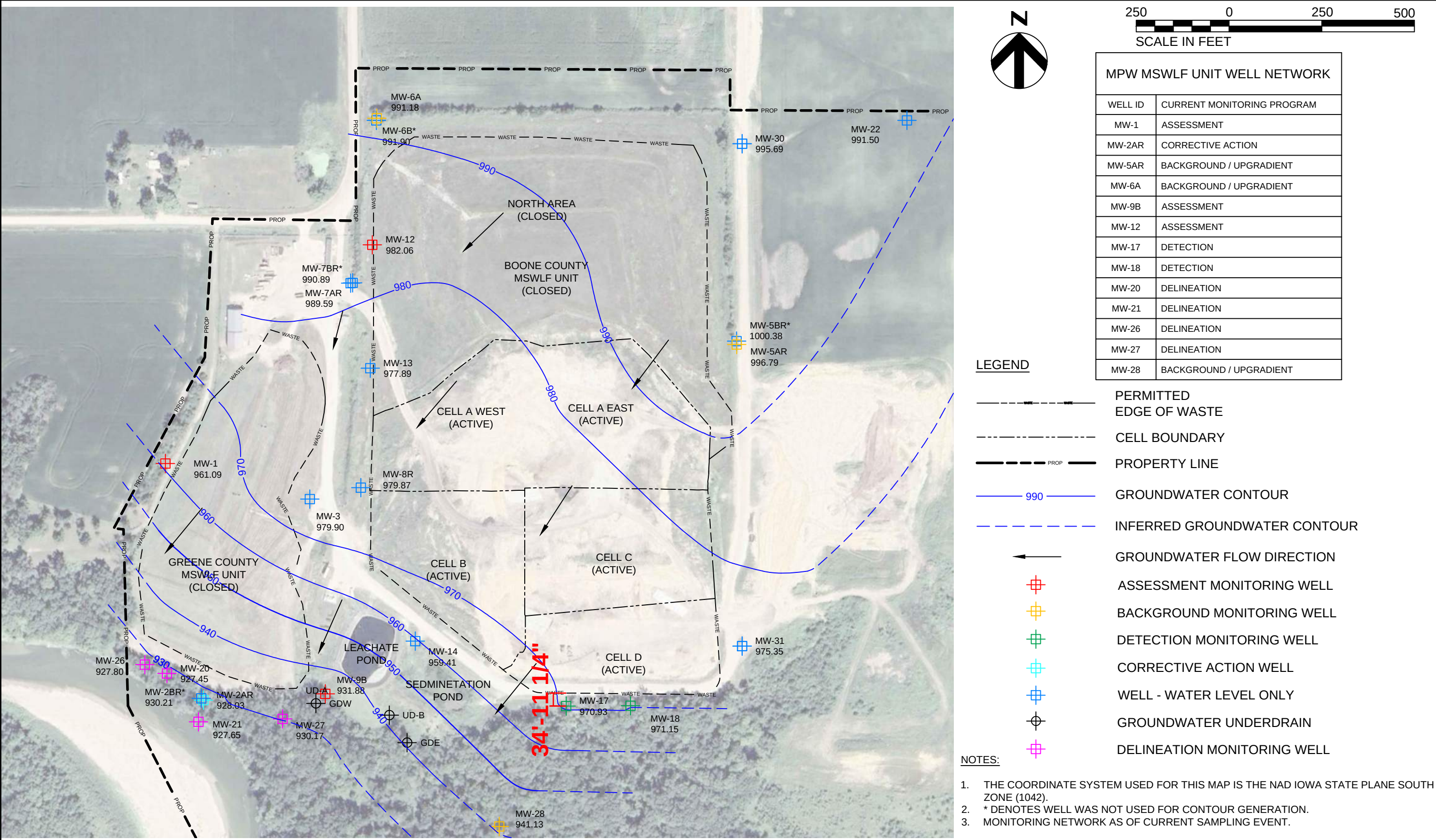
A handwritten signature in black ink, appearing to read 'Richard Wilson'.

Richard Wilson
Environmental Project Manager

A handwritten signature in black ink, appearing to read 'Rafid Haider'.

Rafid Haider
Solid Waste EIT

cc: Becky Jolly, Iowa Department of Natural Resources
Matthew Morris, Metro Waste Authority
Chad Dentlinger, Metro Waste Authority
Andrew Phillips, Metro Waste Authority
Kirk Irwin, Metro Waste Authority



**METRO WASTE AUTHORITY
METRO PARK WEST
GREENE & BOONE COUNTY MSWLF UNITS**

GROUNDWATER CONTOUR MAP - APRIL 2026

Low Stress Groundwater Sampling Data Sheet

	Facility Name: MPW	Sampler Name(s): Richard Wilson
	MW Identification: MW-17	Date/Time: 8-10-2016 / 17:41
	Sample Number: 1	PID Readings: N/A
	Weather Conditions: Sunny, hard mid upper 80s	
	Wellhead Inspection: Good	

Visual Inspection:

1. Survey Mark Present: (Yes/No)	<u>Yes</u> / No	5. Standing/Ponded Water (Yes/No)	Yes / <u>No</u>
2. Collision/Vandalism Damage: (Yes/No)	Yes / <u>No</u>	6. Frost Heaving (Yes/No)	Yes / <u>No</u>
3. Casing Degradation: (Yes/No)	Yes / <u>No</u>	7. Lock in Place (Yes/No)	<u>Yes</u> / No
4. Well Subsidence: (Yes/No)	Yes / <u>No</u>		

Ground Water Measurements/Purge data:

1. Static Water Level (±0.01 feet [ft.] BTOC)	12.92	6. Purge Rate (mL/min)	450 mL
2. Bottom of casing (±0.01 ft. BTOC)	NM	7. Water Level Measuring Equip.	Solinst
3. Casing Diameter (inches)	2	8. Purge Equipment Used	Bladder
4. Actual Volume of Water Purged (mL)		9. Dedicated? (Yes/No)	<u>Yes</u> / No
5. Purge Water Characteristics:		10. Immiscible layer observed	Yes / <u>No</u>
Odor None	Turbidity low	11. Thickness of immiscible layer	
Color Clear		12. Drive Gas (Air/Nitrogen)	<u>AIR</u> / NITROGEN / N/A

Time	Volume Purged (mL)	Temperature (°C)	Conductivity (µs/cm)	ORP (mV)	D.O. (mg/L)	Turbidity (NTU)	pH (S.U.)	Water Level (ft. BTOC)
13:46								Pump Start
13:49	1950	16.6	1222	-68.7	0.25	18.35	6.86	NM
13:52	3300	17.3	1205	-52.3	0.07	9.00	6.85	14.21
13:55	4650	17.6	1192	-54.6	0.04	7.58	6.86	15.00
13:58	6400	17.7	1184	-115.7	0.01	8.80	6.88	15.32
14:01	7750	17.5	1185	-122.2	0.01	10.98	6.88	15.56
14:04	9100	17.6	1192	-123.9	0.01	11.35	6.87	16.31

Well evacuated to dryness?	Yes / <u>No</u>	Time to recharge (min):		9. Decontamination Procedures:	
1. Sample Filtered?	Yes / <u>No</u>	6. Sample Time:	14:07	Alconox/DI Rinse	
2. Sampling Equip. Used	Bladder	7. Parameter/Container/Pres.	See Attached COC	10. Instrument type: YSI ProDSS	
3. Drive Gas (Air/Nitrogen)	<u>AIR</u> / NITROGEN / N/A			Calibration Date:	LAB
4. Sample Rate (mL/min)	450		Cobalt, nickel, silver, TSS	Calibration Time:	LAB
5. Sample Appearance:			Nitric & non-preserved bottles	Std.	Reading Adjust.
Turbidity	low	8. Other Information:		pH	
Color	none			Conduct.	
Odor	none			ORP	
				D.O	
				Turbidity	

See attached Lab Form for Calibration Data



Calibrated at Geotech's Colorado service center
2650 East 40th Avenue
Denver, CO 80205
(800) 833-7958 Fax: (303) 322-7242

YSI Pro DSS Calibration Certificate

Unit Number: 8889

Calibration Date 7/24/2026

Serial Number: 25E100935

Technician: Brady Cox

Installed Probes

- ☒ Conductivity
- ☒ PH/ORP
- ☒ DO
- ☒ TURB

- ☒ Display is clear, and free of damage
- ☒ Cable and accessories are free of damage
- ☒ Firmware version is up to date.
- Display Battery 75 % **Pass**
- Cable Flex Test: **Pass**

Cable Length	4M	pH/ORP Serial #	25H104302
Cable Lot #	25D100816	DO Probe Serial #	25D101485
Cond Probe Lot #	25C105821	Turb Probe Serial #	25D101583
Bath Temp	33.72 °C		
Meter Temp	33.68 °C		
Variance	-0.04	Pass	

Cond

Calibration	Reading		Buffer Lot #	Exp. Date	
1.413 mS	1.413 mS	Pass	6GE1747	5/27	Pass

pH

Point Test	Calibration	Reading	mV	Slope	Buffer Lot #	Exp. Date	
2 Point	pH 7.00	pH 7.00	-23.4 mV		6GD1873	4/28	Pass
	pH 10.01	pH 10.01	-194.7 mV	171.3	6GE1665	5/28	Pass

ORP

Calibration	Reading		Buffer Lot #	Exp. Date	
220 mV	220 mV	Pass	6GA1600	10/26	Pass

Turbidity

Zero	Reading	Variance		Cal	Reading	Variance		Buffer Lot #	Exp. Date	
0 ntu	0 ntu	0 ntu	Pass	124 ntu	124 ntu	0.0%	Pass	26D24031113	5/27	Pass

DO

Barometer	Calibration	Reading	Variance		Test Fluid
632.4 mmHg	83.2 %	83.2 %	0.0%	Pass	Water Saturated Air
Time: Min.	Sec.	Reading			Nitrogen Lot #
3	48	1 %	Pass		153-403586256-1

Geotech Environmental Equipment, Inc. takes pride in ensuring this instrument is tested to function as specified by the manufacturer and was calibrated in accordance to manufacturer specifications. All calibration standards used are NIST traceable. With the provided lot numbers we can provide NIST documents on request. Call us at (800) 833-7958 and we will be glad to help.

ANALYTICAL REPORT

PREPARED FOR

Attn: Richard Wilson
HDR Inc
1917 S 67th Street
Omaha, Nebraska 68106

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JOB DESCRIPTION

Metro Park WEST Landfill

JOB NUMBER

310-338332-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
Conner Calhoun, Client Service Manager
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Case Narrative

Client: HDR Inc
Project: Metro Park WEST Landfill

Job ID: 310-338332-1

Job ID: 310-338332-1

Eurofins Cedar Falls

Job Narrative 310-338332-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 8/11/2026 3:40 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Sample Summary

Client: HDR Inc
Project/Site: Metro Park WEST Landfill

Job ID: 310-338332-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-338332-1	MW-17	Water	08/10/26 14:07	08/11/26 15:40	Iowa

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: HDR Inc
Project/Site: Metro Park WEST Landfill

Job ID: 310-338332-1

Client Sample ID: MW-17

Lab Sample ID: 310-338332-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.00145		0.00100	0.000402	mg/L	1		6020B	Total
									Recoverable
Nickel	0.00423		0.00200	0.000625	mg/L	1		6020B	Total
									Recoverable
Total Suspended Solids	18.2		3.00	1.68	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Metro Park WEST Landfill

Job ID: 310-338332-1

Client Sample ID: MW-17

Lab Sample ID: 310-338332-1

Date Collected: 08/10/26 14:07

Matrix: Water

Date Received: 08/11/26 15:40

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.00145		0.00100	0.000402	mg/L		08/18/26 21:10	09/02/26 15:12	1
Nickel	0.00423		0.00200	0.000625	mg/L		08/18/26 21:10	09/02/26 15:12	1
Silver	<0.000115		0.000500	0.000115	mg/L		08/18/26 21:10	09/02/26 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	18.2		3.00	1.68	mg/L			08/12/26 10:21	1

Definitions/Glossary

Client: HDR Inc
Project/Site: Metro Park WEST Landfill

Job ID: 310-338332-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Sample Results

Client: HDR Inc
Project/Site: Metro Park WEST Landfill

Job ID: 310-338332-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-879937/1-A
Matrix: Water
Analysis Batch: 881949

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 879937

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.000402		0.00100	0.000402	mg/L		08/18/26 21:10	09/01/26 15:17	1
Nickel	<0.000625		0.00200	0.000625	mg/L		08/18/26 21:10	09/01/26 15:17	1
Silver	<0.000115		0.000500	0.000115	mg/L		08/18/26 21:10	09/01/26 15:17	1

Lab Sample ID: LCS 500-879937/2-A
Matrix: Water
Analysis Batch: 881949

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 879937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.500	0.5097		mg/L		102	80 - 120
Nickel	0.500	0.4947		mg/L		99	80 - 120
Silver	0.0500	0.05042		mg/L		101	80 - 120

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-497296/1
Matrix: Water
Analysis Batch: 497296

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<2.80		5.00	2.80	mg/L			08/12/26 10:21	1

Lab Sample ID: LCS 310-497296/2
Matrix: Water
Analysis Batch: 497296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	105.0		mg/L		105	82 - 117

QC Association Summary

Client: HDR Inc
Project/Site: Metro Park WEST Landfill

Job ID: 310-338332-1

Metals

Prep Batch: 879937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-338332-1	MW-17	Total Recoverable	Water	3005A	
MB 500-879937/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-879937/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 881949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-879937/1-A	Method Blank	Total Recoverable	Water	6020B	879937
LCS 500-879937/2-A	Lab Control Sample	Total Recoverable	Water	6020B	879937

Analysis Batch: 882063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-338332-1	MW-17	Total Recoverable	Water	6020B	879937

General Chemistry

Analysis Batch: 497296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-338332-1	MW-17	Total/NA	Water	I-3765-85	
MB 310-497296/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-497296/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: HDR Inc
Project/Site: Metro Park WEST Landfill

Job ID: 310-338332-1

Client Sample ID: MW-17

Date Collected: 08/10/26 14:07

Date Received: 08/11/26 15:40

Lab Sample ID: 310-338332-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			879937	MA	EET CHI	08/18/26 21:10 - 08/19/26 05:10 ¹
Total Recoverable	Analysis	6020B		1	882063	RN	EET CHI	09/02/26 15:12
Total/NA	Analysis	I-3765-85		1	497296	HE7K	EET CF	08/12/26 10:21

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:
EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: HDR Inc
Project/Site: Metro Park WEST Landfill

Job ID: 310-338332-1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-27

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	082	05-01-28

Method Summary

Client: HDR Inc

Job ID: 310-338332-1

Project/Site: Metro Park WEST Landfill

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CHI
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI

Protocol References:

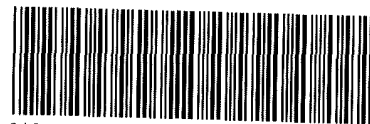
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>JDR</u>			
City/State: <u>City</u>	STATE	Project:	
Receipt Information			
Date/Time Received:	DATE <u>8/11/26</u>	TIME <u>18:10</u>	Received By: <u>[Signature]</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes: Cooler ID: _____			
Multiple Coolers? ☐ Yes ☒ No If yes: Cooler # _____ of _____			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes: Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>FE</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>3.7</u>		Corrected Temp (°C): <u>3.7</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp °C:			
Corrected Temp °C:			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No			
a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

Client Information			Supplier			Lab PM			Carrier Tracking No(s)			COC No:											
Client Contact			Richard Wilson			Calhoun, Conner M			310-124197-31587 1														
Company			HDR Inc			E-Mail: Conner Calhoun@et.eurofinsus.com			State of Origin:			Page: Page 1 of 1											
Address:			1917 S 67th Street			City: Omaha			State, Zip: NE, 68106			Phone: 402-392-6714(Tel)											
Email:			richard.wilson2@hdrinc.com			Project #:			31013266			Site:											
PO #:			Purchase Order not required			Compliance Project:			Delta Yes Delta No			Preservation Codes											
TAT Requested (days):						Sample Date			14:07			Sample Type (C=Comp, G=grab)											
Matrix (W=water, S=solid, O=waste, B=BT-Tissue, A=Air, DW=Drinking water)			Water			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			L3765.85 - Residue, Non-Filterable (TSS)											
60208 - Cobalt, Nickel, Silver						N			D			X											
Total Number of containers			2			Special Instructions/Note:																	
Sample Identification												MW-17											
Possible Hazard Identification												Empty Kit Relinquished by											
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological												Relinquished by											
Deliverable Requested: I, II, III, IV Other (specify)												Relinquished by											
Date/Time: 8-10-2006 / 17:40												Relinquished by											
Date/Time: 8-11-2006 / 08:00												Relinquished by											
Date/Time: 8-11-2006 / 08:00												Relinquished by											
Custody Seal No.												Custody Seal No.											

611 (1)

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Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 310-338332-1

Login Number: 338332

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Hirsch, Preston

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 310-338332-1

Login Number: 338332

List Number: 2

Creator: Scott, Sherri L

List Source: Eurofins Chicago

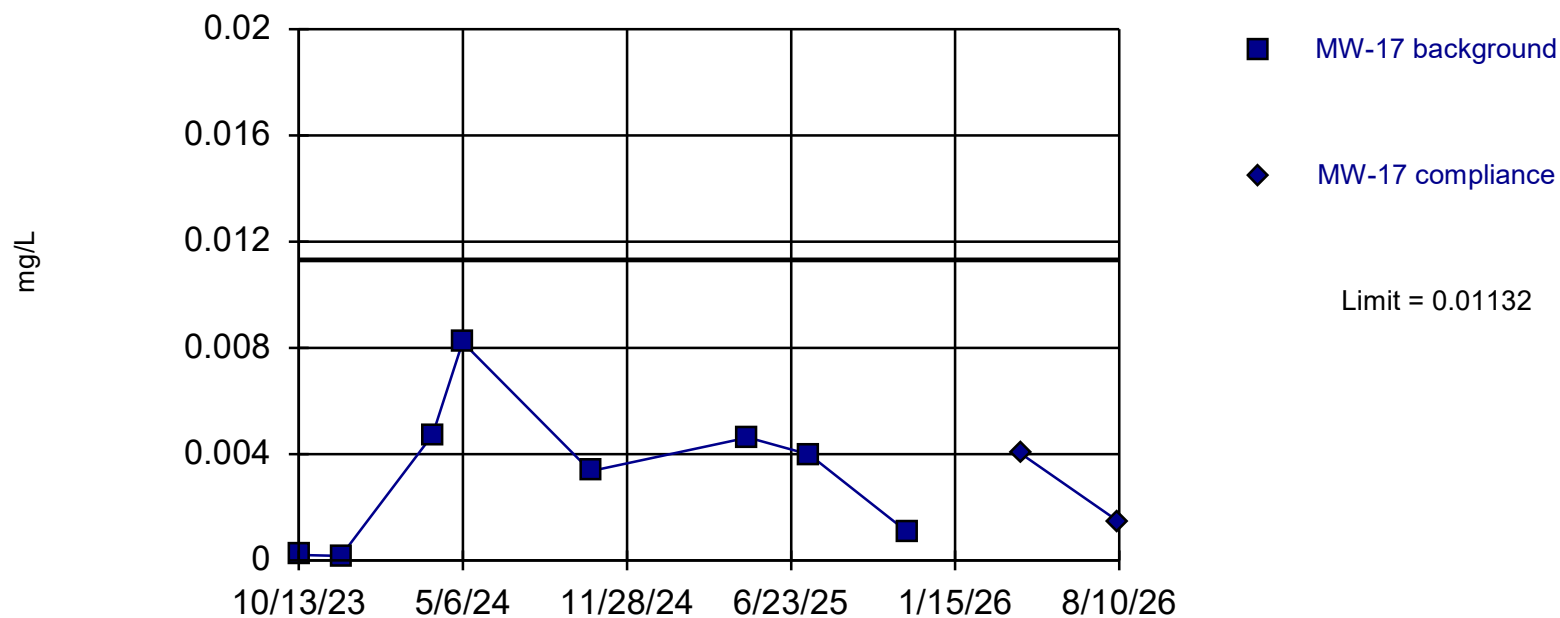
List Creation: 08/13/26 01:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	Unchilled
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.003297, Std. Dev.=0.002748, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9163, critical = 0.749. Kappa = 2.92 (c=16, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.001097.

Constituent: Cobalt Analysis Run 9/16/2026 10:53 AM View: Verification Sampling
Metro Park West LF Client: Iowa Metro Waste Authority Data: MPW_G Database

Prediction Limit

Metro Park West LF Client: Iowa Metro Waste Authority Data: MPW_G Database Printed 9/16/2026, 10:53 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	MW-17	0.01132	8/10/2026	0.00145	No	8	n/a	0.003297	0.002748	0	None	No	0.001097	Param Intra 1 of 2